B.B.M.P

# BRUHAT BENGALURU MAHANAGARA PALIKE

## YELAHANKA ZONE

### DIVISION: BYATARAYANAPURA

### SUB DIVISION: VIDYARANYAPURA

**Name of Work: Estimate for Improvements to Roads and Drains at Vemanna Layout and Surrounding areas in Ward No. 13, (Doddabommasandra)**

**Estimated Cost Rs. 50.00 Lakhs**

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**YELAHANKA ZONE**

**NAME OF WORK:- Improvements to Roads and Drains at Vemanna Layout and Surrounding areas in Ward No. 13, (Doddabommasandra).**

**Estimation Cost.Rs 5000000.00**

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| 1 | Removing and resetting of footpath slab (Approved arrival rate) | Sqm | | | | | | | |
| | **Covering Slab Drain** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 2 | 108.00 | | 0.90 | 194.40 | | |
| | Apoorva Apartment Road | | 2 | 160.00 | | 0.90 | 288.00 | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | | 0.90 | 72.00 | | |
| | Cross Road | | 2 | 150.00 | | 0.90 | 270.00 | | |
| | | | | | | | **824.40** | | |
| | Consider 60% of Total Qty | | | | | | 494.64 | | |
| | | | | | | | | | |
| | Basic rate | 235.00 | | | | | | | |
| | Total | | | | | | **494.64** | 235.00 | **116240.00** |
| 2 | Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1) | Cum | | | | | | | |
| | **New Culvert** | | | | | | | | |
| | | | 2 | 6.00 | 2.00 | 1.20 | 28.80 | | |
| | **For RCC Drain** | | | | | | | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 1.00 | 1.00 | 80.00 | | |
| | **Desilting of Drain** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 2 | 108.00 | 0.45 | 0.45 | 43.74 | | |
| | Apoorva Apartment Road | | 2 | 160.00 | 0.45 | 0.45 | 64.80 | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 0.45 | 0.45 | 16.20 | | |
| | Cross Road | | 2 | 150.00 | 0.45 | 0.45 | 60.75 | | |
| | | | | | | | | | |
| | Basic rate | 186.00 | | | | | | | |
| | Area weightage 10% | 18.60 | | | | | | | |
| | Sub Total | 204.60 | | | | | | | |
| | Total | | | | | | **294.29** | 204.60 | **60212.00** |

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| 3 | P iding and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3) | Cum | | | | | | | |
| | **For Culvert** | | | | | | | | |
| | | | 2 | 6.00 | 1.80 | 0.15 | 3.24 | | |
| | **For RCC Drain** | | | | | | | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 1.00 | 0.15 | 12.00 | | |
| | | | | | | | | | |
| | Issued Rate 07-07-2022 Basic rate | 5554.00 | | | | | | | |
| | Area weightage 10% | 555.40 | | | | | | | |
| | Sub Total | 6109.40 | | | | | | | |
| | Total | | | | | | **15.24** | 6109.40 | **93107.00** |
| 4 | Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) **Item No. 5.4, Page No. 9, Vol - II PWD SR 2021-22** | Cum | | | | | | | |
| | **New Culvert** | | | | | | | | |
| | **1st Course** | | | | | | | | |
| | | | 2x2 | 6.00 | 0.60 | 0.45 | 6.48 | | |
| | **2nd Course** | | | | | | | | |
| | | | 2x2 | 6.00 | 0.45 | 0.45 | 4.86 | | |
| | Basic rate | 5422.00 | | | | | | | |
| | Area weightage 10% | 542.20 | | | | | | | |
| | Sub Total | 5964.20 | | | | | | | |
| | Total | | | | | | **11.34** | 5964.20 | **67634.00** |
| 5 | Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification. **Item No. 21.10 Page No. 190, Vol - II PWD SR 2021-22** | Sqm | | | | | | | |
| | **Pointing** | | | | | | | | |
| | | | 2x2 | 6.00 | | 0.90 | 21.60 | | |
| | Basic rate | 238.00 | | | | | | | |
| | Area weightage 10% | 23.80 | | | | | | | |
| | Sub Total | 261.80 | | | | | | | |
| | Total | | | | | | **21.60** | 261.80 | **5655.00** |

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| 6 | Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.4) )** | Cum | | | | | | | |
| | **Culvert Coping** | | | | | | | | |
| | | | 2 | 6.00 | 1.50 | 0.10 | 1.80 | | |
| | **Ramp** | | | | | | | | |
| | | | 2x2 | 6.00 | 1.00 | 0.15 | 3.60 | | |
| | **Below Kerb Sotnes** | | | | | | | | |
| | Aproova Apartment Road | | 2 | 160.00 | 0.15 | 0.10 | 4.80 | | |
| | | | | | | | | | |
| | Issued Rate 07-07-2022 Basic rate | 5728.00 | | | | | | | |
| | Area weightage 10% | 572.80 | | | | | | | |
| | Sub Total | 6300.80 | | | | | | | |
| | Total | | | | | | **10.20** | 6300.80 | **64268.00** |
| 7 | Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) **(PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2) )** | Cum | | | | | | | |
| | **New Drain** | | | | | | | | |
| | **Raft** | | | | | | | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 0.90 | 0.15 | 10.80 | | |
| | **Side Wall** | | | | | | | | |
| | 2nd Cross Munibyrappa Layout | | 2 | 80.00 | 0.15 | 0.60 | 14.40 | | |
| | **Repair and Raising of Drain** | | | | | | | | |
| | Aproova Apartment Road | | 2x2 | 160.00 | 0.15 | 0.30 | 28.80 | | |
| | | | | | | | | | |
| | Issued Rate 07-07-2022 Basic rate | 5968.00 | | | | | | | |
| | Add 5% for Shuttering | 298.40 | | | | | | | |

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| | | 6266.40 | | | | | | | |
| | Area weightage 10% | 626.64 | | | | | | | |
| | **Sub Total** | **6893.04** | | | | | | | |
| | Total | | | | | | **54.00** | 6893.04 | **372224.00** |
| 8 | Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 **(PWD SR 2021-22 Vol -III Pg 99 item no 13.1)** | | | | | | | | |
| | **For Drain** | Cum | | | | | 54.00 | | |
| | | kg | Steel assumed 60Kg/Cum of Concrete | | | | 0.06 | | |
| | | tonne | | | | | **3.24** | | |
| | Issued Rate 07-07-2022 Basic rate | 92170.00 | | | | | | | |
| | Area weightage 10% | 9217.00 | | | | | | | |
| | **Sub Total** | **101387.00** | | | | | | | |
| | **Total** | | | | | | **3.24** | 101387.00 | **328494.00** |
| 9 | Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete. (Data Rate) | Sqm | | | | | | | |
| | **Missing Covering Slabs** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 150 | 0.60 | 0.90 | | 81.00 | | |
| | Apoorva Apartment Road | | 135 | 0.60 | 0.90 | | 72.90 | | |
| | 2nd Cross Munibyrappa Layout | | 120 | 0.60 | 0.90 | | 64.80 | | |
| | Cross Road | | 143 | 0.60 | 0.90 | | 77.22 | | |
| | Data rate | 2072.00 | | | | | | | |
| | Total | | | | | | **295.92** | 2072.00 | **613146.00** |
| 10 | Providing and Fixing pre cast Covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. As per Engineer incharge | Sqm | | | | | | | |
| | For Culvert | | | | | | | | |
| | | | 2 | 6.00 | 1.50 | | 18.00 | | |
| | Data rate | 5037.00 | | | | | | | |
| | Total | | | | | | **18.00** | 5037.00 | **90666.00** |
| 11 | Supplying and fixing M15 grade precast cement concrete 600 x 300 x 150 mm Kerb Stone for Roadway, Sidewalls and gutters fixed with CM 1:3 fixed and finsihed in line as per direction of Engineer in charge. (PWD SR 2021-22 Vol III Pg no 146 Item no 6.3) | Mtrs | | | | | | | |
| | **Kerb Stones** | | | | | | | | |
| | Apoorva Apartment Road | | 2 | 160.00 | | | 320.00 | | |

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| | D rate | 423.00 | | | | | | | |
| | Area weightage 10% | 42.30 | | | | | | | |
| | Sub Total | 465.30 | | | | | | | |
| | Total | | | | | | **320.00** | 465.30 | **148896.00** |
| 12 | Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concretesurfaces. MORTH Chapter 803 (PWD SR 2021-22 Vol III Pg no 56 Item No 8.10) | Sqm | | | | | | | |
| | **Kerb Stone Painting** | | | | | | | | |
| | Apoorva Apartment Road | | 2 | 160.00 | | 0.30 | 96.00 | | |
| | | | | | | | | | |
| | Basic rate | 96.00 | | | | | | | |
| | Area weightage 10% | 9.60 | | | | | | | |
| | Sub Total | 105.60 | | | | | | | |
| | Total | | | | | | **96.00** | 105.60 | **10138.00** |
| 13 | Earth work in surface Excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12 ) | Cum | | | | | | | |
| | **Road Work** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 1 | 108.00 | 5.00 | 0.20 | 108.00 | | |
| | Apoorva Apartment Road | | 1 | 160.00 | 5.50 | 0.20 | 176.00 | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 5.00 | 0.20 | 80.00 | | |
| | Cross Road | | 1 | 150.00 | 4.50 | 0.20 | 135.00 | | |
| | | | | | | | 499.00 | | |
| | Consider 30% of Damaged Portion | | | | | | 149.70 | | |
| | | | | | | | | | |
| | Basic rate | 65.00 | | | | | | | |
| | Area weightage 10% | 6.50 | | | | | | | |
| | Sub Total | 71.50 | | | | | | | |
| | Total | | | | | | **149.70** | 71.50 | **10704.00** |
| 14 | Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no. 24 Item No. 4.27 (A)) | Cum | | | | | | | |

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| | **R d Work** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 1 | 108.00 | 5.00 | 0.25 | 135.00 | | |
| | Apoorva Apartment Road | | 1 | 160.00 | 5.50 | 0.25 | 220.00 | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 5.00 | 0.25 | 100.00 | | |
| | Cross Road | | 1 | 150.00 | 4.50 | 0.25 | 168.75 | | |
| | | | | | | | 623.75 | | |
| | Consider 30% of Damaged Portion | | | | | | 187.13 | | |
| | | | | | | | | | |
| | Basic rate | 2394.00 | | | | | | | |
| | Area weightage 10% | 239.40 | | | | | | | |
| | Sub Total | 2633.40 | | | | | | | |
| | Total | | | | | | **187.13** | 2633.40 | **492775.00** |
| 15 | Providing and applying Primer Coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 ( PWD SR 21-22 Vol III Pg no 29 Item No 5.1.A (i)) | Cum | | | | | | | |
| | **Road Work** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 1 | 108.00 | 5.00 | | 540.00 | | |
| | Apoorva Apartment Road | | 1 | 160.00 | 5.50 | | 880.00 | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 5.00 | | 400.00 | | |
| | Cross Road | | 1 | 150.00 | 4.50 | | 675.00 | | |
| | | | | | | | 2495.00 | | |
| | Consider 30% of Damaged Portion | | | | | | 748.50 | | |
| | | | | | | | | | |
| | Issued Rate 07-07-2022 Basic rate | 42.00 | | | | | | | |
| | Area weightage 10% | 4.20 | | | | | | | |
| | Sub Total | 46.20 | | | | | | | |
| | Total | | | | | | **748.50** | 46.20 | **34581.00** |
| 16 | Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects ( PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C)) | Cum | | | | | | | |
| | **Road Work** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 1 | 108.00 | 5.00 | 0.05 | 27.00 | | |
| | Apoorva Apartment Road | | 1 | 160.00 | 5.50 | 0.05 | 44.00 | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 5.00 | 0.05 | 20.00 | | |
| | Cross Road | | 1 | 150.00 | 4.50 | 0.05 | 33.75 | | |
| | | | | | | | 124.75 | | |
| | Consider 30% of Damaged Portion | | | | | | 37.43 | | |
| | | | | | | | | | |
| | Issued Rate 07-07-2022 Basic rate | 9139.00 | | | | | | | |
| | Area weightage 10% | 913.90 | | | | | | | |
| | Sub Total | 10052.90 | | | | | | | |
| | Total | | | | | | **37.43** | 10052.90 | **376230.00** |

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| 17 | Providing and applying Tack Coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. | Sqm | | | | | | | |
| | **Road Work** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 1 | 108.00 | 5.00 | | 540.00 | | |
| | Apoorva Apartment Road | | 1 | 160.00 | 5.50 | | 880.00 | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 5.00 | | 400.00 | | |
| | Cross Road | | 1 | 150.00 | 4.50 | | 675.00 | | |
| | | | | | | | | | |
| | Issued Rate 07-07-2022 Basic rate | 14.00 | | | | | | | |
| | Area weightage 10% | 1.40 | | | | | | | |
| | Sub Total | 15.40 | | | | | | | |
| | Total | | | | | | **2495.00** | 15.40 | **38423.00** |
| 18 | Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects ( PWD SR 21-22 Vol III Pg no 36 Item No 5.16) | Cum | | | | | | | |
| | **Road Work** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 1 | 108.00 | 5.00 | 0.04 | 21.60 | | |
| | Apoorva Apartment Road | | 1 | 160.00 | 5.50 | 0.04 | 35.20 | | |
| | 2nd Cross Munibyrappa Layout | | 1 | 80.00 | 5.00 | 0.04 | 16.00 | | |
| | Cross Road | | 1 | 150.00 | 4.50 | 0.04 | 27.00 | | |
| | | | | | | | | | |
| | Issued Rate 07-07-2022 Basic rate | 10611.00 | | | | | | | |
| | Area weightage 10% | 1061.10 | | | | | | | |
| | Sub Total | 11672.10 | | | | | | | |
| | Total | | | | | | **99.80** | 11672.10 | **1164876.00** |
| 19 | Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15) | Sqm | | | | | | | |
| | **Road Work** | | | | | | | | |
| | Vemanna Layout Geethajali Jewels Road | | 2 | 108.00 | 0.10 | | 21.60 | | |
| | Apoorva Apartment Road | | 2 | 160.00 | 0.10 | | 32.00 | | |
| | 2nd Cross Munibyrappa Layout | | 2 | 80.00 | 0.10 | | 16.00 | | |
| | Cross Road | | 2 | 150.00 | 0.10 | | 30.00 | | |
| | | | | | | | | | |
| | Basic rate | 478.00 | | | | | | | |
| | Area weightage 10% | 47.80 | | | | | | | |

| Sl No | Description of work | Unit | Mesurement | | | | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| | S Total | 525.80 | | | | | | | |
| | Total | | | | | | **99.60** | 525.80 | **52370.00** |
| 20 | Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C ) | Cum | | | | | | | |
| | Qty Vide 90% of Item No- (2+13) | | | | | | 417.35 | | |
| | Total | | | | | | **417.35** | 81.40 | **33972.00** |
| | | | | | | | | | |
| | Basic rate | 74.00 | | | | | | | |
| | Area Weightage 10% | 7.40 | | | | | | | |
| | Total | 81.40 | | | | | | | |
| 21 | Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B ) | T.Km | | | | | | | |
| | Qty frm Item No-20 | | | 417.35 | 1.28 | | 534.20 | | |
| | Total | | | | | | **534.20** | 115.50 | **61700.00** |
| | 15Km 7*15 | 105.00 | | | | | | | |
| | Area Weightage 10% | 10.50 | | | | | | | |
| | Total | 115.50 | | | | | | | |
| | | | | | | | | Grand Total | **4236311.00** |
| | | | | | | | | | |
| | | | | | | | | GST Charges (18% of estimated cost) | **762536.00** |
| | | | | | | | | | |
| | | | | | | | | Miscellenious and rounding | **1153.00** |
| | | | | | | | | | |
| | | | | | | | | Total Amount | **5000000.00** |
| | | | | | | | | | |
| | **Rupees Fifty Lakh(s) Only** | | | | | | | | |

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2021-22, Issue rates and Data Rates.

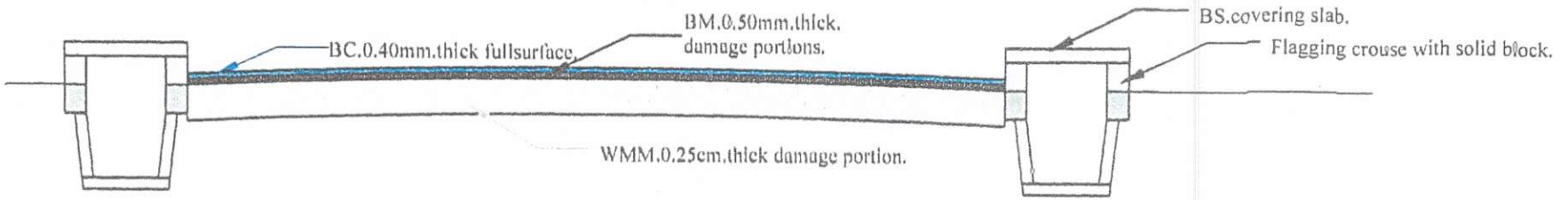
Assistant Engineer
Ward No. 13, Doddabommasandra

Assistant Executive Engineer
Vidyaranyapura Sub Division

Executive Engineer
Byatarayanapura Division

Administrative Approval
Accorded For Rs. 50.00 Lakhs
Head of A/C P3726
CER NO :126 Dt: 16.09.22

Technical Sanction
Accorded For Rs 50.00 Lakhs
Head of A/C P3726
CER NO :120 Dt: 16/09/2022

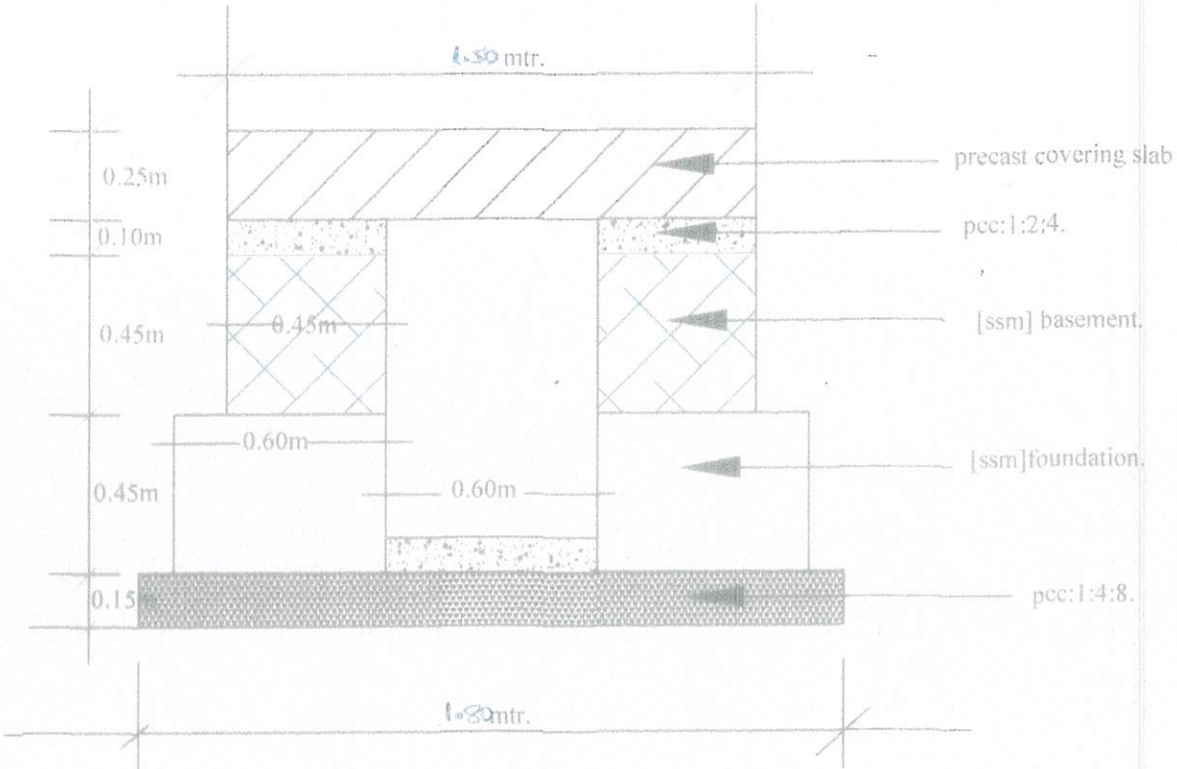



CROSS SECTION OF ASPHALT ROAD.

ASSISTANT ENGINEER.

ASSISTANT EXECUTIVE ENGINEER.

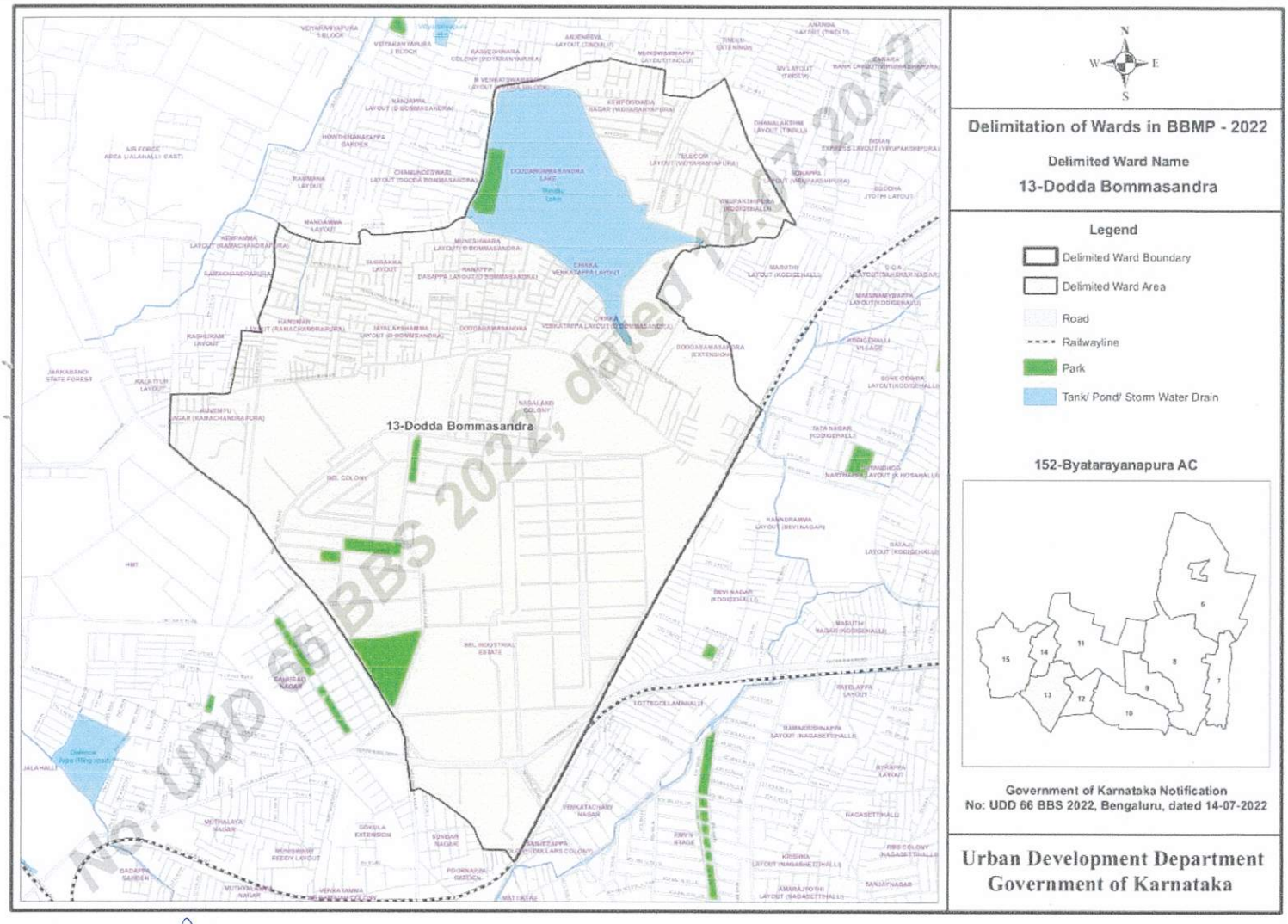
Scanned with CamScanner




CROSS SECTION OF CULVERT

ASSISTANT ENGINEER.

ASSISTANT EXECUTIVE ENGINEER.




No: UDD 66 BBS 2022, dated 14.07.2022